

Cabinet View Country Club Golf Course
March 10, 2008

EPA has found contamination on the original nine holes of the Cabinet View Country Club (CVCC) Golf Course. The golf course was constructed beginning in 1956. Apparently, because of its availability and physical characteristics, vermiculite waste was used as a sub-grade drainage feature in all of the greens and tee boxes of the original nine holes. Sampling data indicate that Libby Amphibole (LA) contamination can be found on these features (within 4 inches of the surface), as well as in the areas immediately around them, and along drainage paths leading away from them.

Thus the current contamination at the CVCC golf course, like those at other commercial properties in Libby, meets the current Site Removal Criteria. Based on input from the community over the last few months, this project was deemed a lower priority than the on-going residential cleanups, but it is still important in terms of risk and economic redevelopment. EPA plans to complete a design and restoration plan for this property by June 2008, and revisit its prioritization in FY-2009 or sooner if funding becomes available.

The CVCC golf course is open from April 1 through October 31 each year. During the season, the CVCC employs up to a dozen maintenance personnel who cut, rake, and tend to the course and contaminated areas daily. Attached are sample results taken from personnel working at the CVCC. This sampling was conducted to assess asbestos exposure over the full course of the employees' duties, not just from tending the greens and tee boxes. According to the CVCC board, during an average season, roughly 15,000 rounds of golf are played on the original nine-holes. At this time it is unclear what the exposure would be to someone playing a round of golf.

Given its size and scope, this single property is likely to generate as much waste as 50 residential cleanups, with much higher restoration costs. If possible, Region 8 would prefer to negotiate a cash-out settlement for its restoration with the CVCC owners.

TASK 3C: GOLF COURSE WORKER
379 Cabnet View Rd - Cabnet View Country Club

Air

IndexID	Personal/ Stationary	Sample Desc.	Sample Date	Air Volume (L)	Analysis ID/Seq#	Analyte Method	Prep Method	Analysis Date	GO Size (mm ²)	GO Counted	EFA (mm ³)	F-factor	Analysis Sensitivity (1/cc)	Total LA Struc	Air Cone (s/sec)	Potential Air Cone (s/sec)
SQ-00446	Personal (LV)*	Golf course worker	7/15/2005	1,810	124326	TEM-ISO10312	DIRECT	7/21/2005	0.011	24	305	1	9.1E-04	4	3.8E-03	2.3E-05
SQ-00446	Personal (HV)*	Golf course worker	7/15/2005	3,610	124327	TEM-ISO10312	DIRECT	7/21/2005	0.011	10	365	1	9.7E-04	1	9.7E-04	
SQ-01021	Personal (LV)	Lshiner 1	6/13/2005	1,302	108270	TEM-ISO10312	DIRECT	6/23/2005	0.0099	40	365	1	7.9E-04	0	0.0E+00	0.0E+00
SQ-01022	Personal (LV)	Laborer 2	6/13/2005	1,302	124306	TEM-ISO10312	DIRECT	6/30/2005	0.0099	30	365	1	1.0E-03	2	2.0E-03	2.0E-03
SQ-01024	Personal (LV)	Laborer 1	6/14/2005	1,236	108273	TEM-ISO10312	DIRECT	6/30/2005	0.0099	30	365	1	1.0E-03	0	0.0E+00	0.0E+00
SQ-01025	Personal (LV)	Laborer 2	6/14/2005	1,236	108274	TEM-ISO10312	DIRECT	6/30/2005	0.0099	30	365	1	1.1E-03	0	0.0E+00	0.0E+00
SQ-01025	Personal (LV)	Laborer 1	6/15/2005	1,204	128191	TEM-ISO10312	DIRECT	7/9/2005	0.0099	33	365	1	9.6E-04	3	2.9E-03	2.3E-05
SQ-01029	Personal (LV)	Laborer 2	6/15/2005	1,137	124307	TEM-ISO10312	DIRECT	7/9/2005	0.0099	33	365	1	9.9E-04	1	9.9E-04	3.3E-04
SQ-01030	Stationary	Composite of doanfield of 3 different greens	6/15/2005	3,533	108512	TEM-ISO10312	DIRECT	7/5/2005	0.0099	11	365	1	9.6E-04	0	0.0E+00	0.0E+00
SQ-01026	Stationary	Composite of doanfield side of 4 different greens	6/14/2005	2,703	109530	TEM-ISO10312	DIRECT	7/5/2005	0.0099	15	365	1	9.6E-04	0	0.0E+00	0.0E+00

HV - high volume pump

LV - low volume pump

* - Both the HV and LV samples were analyzed; results were pooled